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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/684,988 10/10/00 JACK Α 003300-688 **EXAMINER** MMC2/0726 BENTON S. DUFFETT, JR. GONZALEZ. PAPER NUMBER **ART UNIT** BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.LO. BOX 1404 ALEXANDRIA VA 22313-1404 2834 **DATE MAILED:** 07/26/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	A	
•	Application No.	Applicant(s)
Office Action Summary	09/684,988	JACK ET AL.
	Examiner	Art Unit
	Julio C. Gonzalez	2834
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stream of the period for reply will be stream	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC atute, cause the application to become a	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	<u>14 June 2001</u> .	
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) Claim(s) 1-21 is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-21</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction an	nd/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>10 October 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11)⊠ The proposed drawing correction filed on <u>14 June 2001</u> is: a)□ approved b)⊠ disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 		
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper Not) 5) Notice of	w Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "each tooth having a single winding" disclosed in claims 1 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant discloses in claim 1 that each section would receive electricity from an electrical supply. What is meant by "electrical relative to electricity received by a second" stator section? Each section will give electricity to the other section? The shifted electricity by 180 degrees will be received by one of the stator sections? From the electrical supply or from the other stator section?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3, 8-12 and 17-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuo et al.

Kuo et al discloses a stator comprising an even number of n stator sections (see figure 2) at different axial positions, each tooth having a single winding 70 wherein the stator sections are mutually phase shifted by 360degrees/n and the first stator section is shifted 180 degrees from the other stator section (see figure 3). Moreover each stator section has the same number of teeth and each tooth has a rounded profile.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 4-7 and 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuo et al in view of Sakai et al.

Kuo et al discloses a stator comprising an even number of n stator sections (see figure 2) at different axial positions, each tooth having a single winding 70 wherein the stator sections are mutually phase shifted by 360degrees/n and the first stator section is shifted 180 degrees from the other stator section (see figure 3). Moreover each stator section has the same number of teeth and each tooth has a rounded profile.

However, Kuo et al does not disclose the use of magnetic powder.

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On the other hand, Sakai et al discloses for the purpose of reducing power loss output and improving rotor under high temperatures that the induction machine 1 uses magnetic powder (column 3, lines 10-15).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design an electrical machine comprising a plurality of teeth and stator sections as disclosed by Kuo et al and to use magnetic powder for the purpose of reducing power loss output and improving rotor under high temperatures as disclosed by Sakai et al.

Response to Arguments

8. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-77227722 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

NESTOR RAMIREZ
SUPERIUSGRY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Jcg

July 19, 2001